

ENERGY AND WATER DEVELOPMENT FY2010

City of Marietta, Ohio Wastewater Treatment Plant Improvements, Regional Sewer System, Phase I, Capacity Upgrade

**City of Marietta
301 Putnam Street
Marietta, Ohio 45750
\$2,000,000**

The recipient believes this is a valuable use of the taxpayers' money because it will improve the City of Marietta's wastewater treatment plant. The plant serves an area of more than 14,500 people. This project will allow the plant to maintain environmental compliance with its National Pollution Discharge Elimination System (NPDES), provide additional capacity, and reduce operating costs. The project will enhance the sewer treatment capability and capacity of the City of Marietta, allowing the city to respond to current and imminent needs of the residential and industrial community and to provide a discharge point for other communities.

**Container-On-Barge Study
Southeastern Ohio Port Authority
200 Putnam Street Suites 500 - 504
Marietta, OH 45750
\$150,000**

The recipient believes this is a valuable use of the taxpayers' money because Container-On-Barge (COB) freight movement has the potential to fundamentally change the flow of commerce and provide economic, environmental and fuel conservation benefits. The Southeastern Ohio Port Authority is seeking funds for a detailed feasibility study on the movement of international shipping containers on the Ohio River by barge. The feasibility study would include a complete origin and destination study for regional container movements, identification of market segments and product types suited for movement on containers, and the identification of companies that could use COB as a mode of transportation.

Gallia Blackfork Road and 4 Hill Road Waterline Extensions and Morris Lane Pump Station

**Upgrade Projects
Scioto Water, Inc.
PO Box 1001
Franklin Furnace, Ohio 45629
\$225,000**

The recipient believes this is a valuable use of the taxpayers' money because the project will

provide service to residents who do not have adequate drinking water. In addition, the project will upgrade an existing pump station in order to serve Scioto Water's existing customers more adequately. The Gallia Blackfork Road and 4 Hill Road Waterline Extension and Morris Lane Pump State Upgrade Projects involve the extension of waterlines to customers on Gallia Blackfork Road and 4 Hill Road.

Gallipolis CIPP Project
City of Gallipolis
Gallipolis Municipal Building
518 Second Avenue
Gallipolis, OH 45631
\$1,000,000

The recipient believes this is a valuable use of the taxpayers' money because it will keep the inflow and infiltration from overloading the current wastewater treatment plant. Currently the City's treatment facility discharges into the Ohio River. Separation of storm water and sewer water will allow the city to treat the sewage more effectively.

Gallipolis Spruce Street Water Line and Sewer Improvements
City of Gallipolis, Ohio
518 Second Avenue
Gallipolis, OH 45631
\$365,000

The recipient believes this is a valuable use of the taxpayers' money because the existing water line is undersized and needs to be replaced with a larger water line in order to provide adequate fire protection to the area. Additionally, the City lacks a sewage collection system; as a result, most homes in the community have septic tanks. The condition and effectiveness of these septic tanks leads to a polluted area located next to the Chickamauga Creek waterway. This project will address the sewer overflow problem within the City.

Greenup Locks and Dam Extension Program in Ohio
Corps of Engineers
502 Eighth Street
Huntington, WV 25701-2070
\$2,000,000

The recipient believes this is a valuable use of the taxpayers' money because the Ohio River is the main source of transportation used to get coal and other supplies to many companies along the Ohio River. Greenup has been in service since 1959 and is the eighth busiest inland navigation lock in the United States based on tonnage. The extension of the existing landward auxiliary lock chamber will eliminate delays that costs both towing companies and the end users millions of dollars.

Harvested Biomass Scoping Study for Eastern Ohio

Baard Energy, LLC

6080 Center Street

Mentor, Ohio 44060

\$600,000

The recipient believes this is a valuable use of the taxpayers' money because the project will lay the groundwork to better understanding Eastern Ohio's supply of biomass. Biomass needs to be explored in order to better understand Eastern Ohio's potential to supply this alternative fuel. This study will assess existing high-level agriculture studies and begin to determine the adequacy, potential production, preparation and distribution of biomass as a potential feedstock in Eastern and Central Ohio. The project will provide critical data for the Ohio River Clean Fuels Plant and its need for biomass as a feedstock. This future facility will be located in the Sixth Congressional District.

Ironton Combined Sewer Overflow Sewer Separation

City of Ironton

301 South 3rd Street

Ironton, OH 45638

\$1,000,000

The recipient believes this is a valuable use of the taxpayers' money because the project will allow the city to address combined sewer overflows. The city needs to meet the nine minimum control measures for the wastewater collection and treatment system in order to comply with current National Pollution Discharge Elimination System (NPDES) limits for the existing treatment plant. The City of Ironton is currently in negotiations with the U.S. Department of Justice and the U.S. EPA to come into compliance with the National Combined Sewer Overflow Policy for the elimination of combined sewer discharge.

Ironton Floodwall Pump Station Rehabilitation Project

City of Ironton

301 South 3rd Street

Ironton, OH 45638

\$2,000,000

The recipient believes this is a valuable use of the taxpayers' funding because it will provide the City of Ironton and the surrounding communities with flood protection. This floodwall pump station will allow the flood protection system to operate properly and protect homes and businesses during the flood season. The station will serve the entire flood protection system for the City of Ironton and allow for normal system operations during periods of flooding of the Ohio River. The project will rehabilitate eight pump stations that were constructed in the early 1940's. The electronic components of these pump stations have outlived their useful life and cannot be replaced because the components are no longer being manufactured. This project will replace

the motor control centers and all outdated electronic components with current technology so that the system can be functional during normal operations and emergency situations.

Mt. Victory Waterline Project Phase I in Belmont County

Belmont County Engineers

101 West Main Street

St. Clairsville, OH 43950

\$750,000

The recipient believes this is a valuable use of the taxpayers' money because it will connect approximately 1,100 additional residents to the Belmont County water system, providing residents with safe and clean drinking water. This waterline extension will also increase potable water and fire protection to Smith, Mead, Washington and York Townships.

Multi-Hybrid Power Vehicles with Cost Effective and Durable Polymer Electrolyte

Membrane Fuel Cell and Li-ion Battery

Ohio University

Ohio University, Cutler Hall

Athens, OH 45701

\$600,000

The recipient believes this is a valuable use of the taxpayers' money because it will support the development of plug-in hybrid technology for the U.S. automobile market. The goal of the project is to create technology that will allow for longer drive time and wide spread utilization of hybrid vehicles. The proposed device will have the ability to maintain a 60 percent battery charge capacity during a five hour driving period. The device will save 46 percent energy during long city driving cycles and about 7 percent energy during highway driving compared to similar power systems. In addition, the battery will decrease the operating cost of motor vehicles.

New Middleton WWTP Upgrade

Mahoning County Commissioners

761 Industrial Road

Youngstown, OH 44509

\$1,000,000

The recipient believes this is a valuable use of the taxpayers' money because it will allow the Township to provide safe and clean drinking water to the residents of Springfield. The project includes the necessary plant components to increase the plant capacity and update the water treatment process.

Pelletron System for the Edwards Accelerator

Ohio University
Ohio University, Cutler Hall
Athens, OH 45701
\$215,000

The recipient believes this is a valuable use of the taxpayers' money because installation of this charging system will enable users at this unique research facility to conduct important experiments related to nuclear physics which are not possible with the current charging system. Researchers from Ohio University and other national universities, federal laboratories, and government contractors will be able to use the facility. These experiments cannot be conducted elsewhere and more nuclear research will ensure better safety for the world's nuclear stockpiles, thus reducing threats of nuclear terrorism.

Ohio River Organics Detection System (ODS) Replacement and Upgrade
Ohio River Valley Water Sanitation Commission (ORSANCO)
5735 Kellogg Avenue
Cincinnati, OH, 45228
\$1,500,000

The recipient believes this is a valuable use of the taxpayers' money because commerce in and along the Ohio River contributes significantly to the economic strength of Ohio. Currently more than 270 million tons of goods and materials travel on the Ohio River. In addition, pipeline and railroads crisscross the Ohio River transporting numerous hazardous commodities. If any of these commodities are accidentally or intentionally released, they could contaminate the drinking water supply for more than 5 million people. The Organics Detection System (ODS) would detect the presence of unreported contaminants in the Ohio River and protect this valuable source of drinking water. Funding for this project would be used to replace aging equipment and upgrade the system to current technology levels to assure continued, reliable operations and protection. This project provides a health benefit to all Ohio River Valley residents.

Racine River Bank Stabilization Park and Water Well Field
Village of Racine
405 Main Street
Racine, Ohio 45771
\$300,000

The recipient believes this is a valuable use of the taxpayers' money because it will protect the potable water well field that serves the citizens of the Village of Racine. The Village of Racine-Star Mill Park and Well Field is eroding and causing unstable areas along the bank of the Ohio River. The Village of Racine has been working with the Huntington Army Corps of Engineers to determine a solution.

Rayland Water Main Project

Village of Rayland

195 Main Street

Rayland, OH 43943

\$225,000

The recipient believes this is a valuable use of the taxpayers' money because it will improve the quality and flow of water to all residents in the Village of Rayland and improve water access for the Village's Fire Department. Funding for this project will be used to replace one of the Village's two waterlines. The cast iron pipe is over 50 years old and is severely decayed on the inside. The Ohio EPA has advised the Village to replace the line.

R.E. Burger Biomass Testing Project

FirstEnergy Generation Corporation

76 South Main Street

Akron, OH 44308

\$3,500,000

The recipient believes this is a valuable use of the taxpayers' money because conversion of the R.E. Burger Plant in Shadyside, Ohio from a coal-fired power plant to a clean-burning biomass plant will allow the plant to continue to operate. This would save over 100 existing jobs and create new green jobs throughout the region. When the transformation is complete, the Burger Plant will be the largest biomass facility in the United States. Funding for this project will be used to conduct testing to demonstrate the plants ability to generate electricity from biomass. Using biomass, at the quantity proposed, would represent a first of its kind for an energy plant in the United States. The results of these tests will provide critical information about the design and performance criteria for the conversion of the facility.

Salem WWTP 1.5 Million Gallon Equalization Basin

City of Salem Utilities Department

213 Broadway Avenue

Salem, Ohio 44460

\$950,000

The recipient believes this is a valuable use of the taxpayers' money because it will eliminate undesired and unpermitted wastewater overflows to the Middlefork Little Beaver Creek during large rain events. Project work will include site piping, concrete tank, a pump station and related work.

Salineville Waterline Extension

Buckeye Water District

1925 Clark Avenue

P.O. Box 105

Wellsville, OH 43968

\$1,500,000

The recipient believes this is a valuable use of the taxpayers' money because the project will serve the state's interest in further regionalizing the area's water service. This project will merge the Village of Salineville's water system into the Buckeye Water District. The primary objective is to provide safe drinking water for the 1,400 residents in the Village of Salineville. The project has languished for the last three years due to a significant gap in funding. Salineville has been under revised Ohio EPA "Findings and Orders" since 2006 to connect to the Buckeye Water District and to abandon their 80 year old water treatment plant. The waterline extensions will consist of a 2.80 mile, 16-inch waterline beginning at the Buckeye Water District's new water treatment plant off of S.R. 45.

Snyder Road Sanitary Trunk Sewer

City of Salem Utilities Department

213 Broadway Avenue

Salem, Ohio 44460

\$900,000

The recipient believes this is a valuable use of the taxpayers' money because it will provide environmental protection to the streams within the City of Salem by insuring that the sanitary sewer flows are conveyed to the wastewater treatment plant. Eliminating a pump station in the system will save energy and greatly reduce the risk of a major industry's productivity being disrupted if the pump station fails.

South Lake Milton Water and Sanitary Sewer Project

Mahoning County Sanitary Engineer

761 Industrial Road

Youngstown, OH 44509

\$1,000,000

The recipient believes this is a valuable use of the taxpayers' funding because it will work to improve the health and safety of the community. The residences and businesses that make up the area around Lake Milton are viewed as a source of Lake Milton pollution by the Ohio Board of Health and the Ohio EPA. The Board of Health and OEPA have sited a failed wastewater septic system as the source of pollution. The South Lake Milton Water and Sanitary Sewer Project would provide domestic water and public sanitary sewer service around the entire perimeter of the lake and eliminate a Board of Health declaration of health and safety.

Township-Wide Storm Water Management Project-Boardman Township, Ohio

Boardman Township

8299 Market Street

Boardman, Ohio 44512

\$600,000

The recipient believes this is a valuable use of the taxpayers' money because it will work to correct the storm water issues that have negatively affected Boardman Township for more than 40 years. This project will correct street flooding and sanitary backups in homes.

Union Rome Water and Sewer Project

Lawrence County Board of Commissioners

111 South 4th Street

Ironton, OH 45638

\$1,000,000

The recipient believes this is a valuable use of the taxpayers' money because it will allow the county to perform needed upgrades its water treatment plant allowing it to better serve the 5,000 households and businesses in the system and to expand service to an additional 800 households and businesses. Making these upgrades would allow the plant to meet the current National Pollution Discharge Elimination System (NPDES) limits.

Village of Dillonvale Wastewater Treatment Plant Replacement

Village of Dillonvale

PO Box 686

Dillonvale, Ohio 43917

\$525,000

The recipient believes this is a valuable use of the taxpayers' money because it will provide the residents of Mt. Pleasant and Dillonvale a more reliable and less expensive wastewater treatment plant to operate. The water district will be able to maintain compliance with the National Pollutant Discharge Elimination System permit by replacing materials and equipment.

Water Reclamation System for Holzer Medical Center in Gallipolis, Ohio

Holzer Medical Center

100 Jackson Pike

Gallipolis, OH 45631

\$175,000

The recipient believes this is a valuable use of the taxpayers' money because the water reclamation system will conserve water and energy, and reduce the strain on the City of Gallipolis' aging water and sewer infrastructure. Installing a Water Reclamation System at Holzer Medical Center will conserve 4 million gallons of drinking water and reduce energy consumption by 2.5 billion BTU each year. The resulting cost savings will allow the hospital to retain 15 living wage jobs with benefits.

Wellsville SR 45 Waterline Replacement and Loop Extension Project

Buckeye Water District

1925 Clark Avenue

Wellsville, OH 43968

\$725,000

The recipient believes this is a valuable use of the taxpayer funding because it will ensure that the community of Wellsville, Ohio has access to safe drinking water. Funds would be used to replace a waterline from its water tower on S.R. 45 to the Village of Wellsville. Currently, the sole transmission line bringing water into the village is deteriorating and has broken three times over the past year, each time rendering the entire Village of Wellsville without water for an extended period of time. The waterline extension project will consist of a 5,100 linear foot, 16-inch waterline.